













FIG. 4α 3000 2000 Longitudinal head field (0e) 1000 0 -1000 -2000 -3000 -4000 -5000 -6000 0.5 0 1.5 2 -1.5 -0.5 -1 1 Down-track (µm) (b) Longitudinal head field profile

FIG.